

Project Title	Funding	Strategic Plan Objective	Institution
Primate models of autism	\$114,105	Q2.S.A	University of California, Davis
Early biologic markers for autism	\$43,308	Q2.S.A	Kaiser Permanente Division of Research
The pathogenesis of autism: Maternal antibody exposure in the fetal brain	\$90,173	Q2.S.A	The Feinstein Institute for Medical Research
Prostaglandins and cerebellum development	\$375,000	Q2.S.A	University of Maryland, Baltimore
A primate model of gut, immune, and CNS response to childhood vaccines	\$155,086	Q2.S.A	University of Washington
Environmentally induced oxidative stress and altered local brain thyroid hormone metabolism: relevance to autism?	\$25,000	Q2.S.A	Harvard Medical School; Brigham and Women's Hospital
The effect of mercury and neuropeptide triggers on human mast cell release of neurotoxic molecules	\$5,000	Q2.S.A	Tufts University
Does mercury and neurotension induce mitochondrial DNA release from human mast cells and contribute to auto-immunity in ASD?	\$40,000	Q2.S.A	Tufts University
Systematic characterization of the immune response to gluten and casein in autism spectrum disorders	\$0	Q2.S.A	Weill Cornell Medical College
Mechanisms of mitochondrial dysfunction in autism	\$0	Q2.S.A	Georgia State University
Molecular pathways involved in oxidative stress and leaky gut impairment in autism spectrum disorders	\$20,000	Q2.S.A	University of Naples
Project 2: Immunological susceptibility of autism	\$173,585	Q2.S.A	University of California, Davis
Primate models of autism	\$734,756	Q2.S.A	University of California, Davis
A mitochondrial etiology of autism	\$657,793	Q2.S.A	Children's Hospital of Philadelphia
An ex-vivo placental perfusion system to study materno-fetal biology	\$243,000	Q2.S.A	University of Southern California
CNS toxicity of ambient air pollution: Postnatal exposure to ultrafine particles	\$191,406	Q2.S.A	University of Rochester
Study of anti-neuronal autoantibodies in behavioral and movement disorders	\$48,000	Q2.S.A	University of Oklahoma Health Sciences Center
A role for immune molecules in cortical connectivity: Potential implications for autism	\$28,000	Q2.S.A	University of California, Davis
Is autism a mitochondrial disease?	\$60,000	Q2.S.A	University of California, Davis
Redox abnormalities as a vulnerability phenotype for autism and related alterations in CNS development	\$0	Q2.S.A	State University of New York at Potsdam
How does IL-6 mediate the development of autism-related behaviors?	\$28,000	Q2.S.A	California Institute of Technology
Redox abnormalities as a vulnerability phenotype for autism and related alterations in CNS development	\$0	Q2.S.A	Arkansas Children's Hospital Research Institute
Regulation of inflammatory Th17 cells in autism spectrum disorder	\$112,500	Q2.S.A	New York University School of Medicine
Maternal immune activation, cytokines, and the pathogenesis of autism	\$382,588	Q2.S.A	University of California, Davis

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Immune molecules and cortical synaptogenesis: Possible implications for the pathogenesis of autism	\$0	Q2.S.A	University of California, Davis
Influence of oxidative stress on transcription and alternative splicing of methionine synthase in autism	\$28,000	Q2.S.A	Northeastern University
Redox abnormalities as a vulnerability phenotype for autism and related alterations in CNS development	\$0	Q2.S.A	University of Rochester
Maternal infection and autism: Impact of placental sufficiency and maternal inflammatory responses on fetal brain development	\$127,500	Q2.S.A	Stanford University
Neurological diseases due to inborn errors of metabolism	\$10,458	Q2.S.A	University of Texas Southwestern Medical Center
A non-human primate autism model based on maternal immune activation	\$114,105	Q2.S.A	University of California, Davis
A non-human primate autism model based on maternal infection	\$335,155	Q2.S.A	California Institute of Technology
Gene-environment interactions in the pathogenesis of autism-like neurodevelopmental damage: A mouse model	\$60,000	Q2.S.A	Johns Hopkins University School of Medicine
Influence of maternal cytokines on activation of the innate immune system as a factor in the development of autism	\$24,000	Q2.S.A	University of Medicine & Dentistry of New Jersey
Influence of maternal cytokines during pregnancy on effector and regulatory T helper cells as etiological factors in autism	\$93,500	Q2.S.A	University of Medicine & Dentistry of New Jersey
Influence of the maternal immune response on the development of autism	\$127,499	Q2.S.A	University of Medicine & Dentistry of New Jersey
Consequences of maternal antigen exposure on offspring immunity: An animal model of vertical tolerance	\$0	Q2.S.A	The Fox Chase Cancer Center
EFRI- BSBA: Novel microsystems for manipulation and analysis of immune cells	\$524,890	Q2.S.A	University of California, Davis
Steroid receptors and brain sex differences	\$301,240	Q2.S.B	University of Wisconsin - Madison
The neural basis of sexually dimorphic brain function	\$343,502	Q2.S.B	University of Massachusetts Amherst
Investigation of sex differences associated with autism candidate gene, CYFIP1	\$31,561	Q2.S.B	University of California, Los Angeles
A sex-specific dissection of autism genetics	\$270,375	Q2.S.B	University of California, San Francisco
A sex-specific dissection of autism genetics	\$150,000	Q2.S.B	University of California, San Francisco
Enhanced tissue procurement from autistic individuals	\$17,000	Q2.S.C	NICHD (National Institute of Child Health & Human Development) Brain and Tissue Bank for Developmental Disorders, University of Maryland
Genetic and developmental analyses of fragile X syndrome	\$544,592	Q2.S.D	Vanderbilt University

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Molecular basis of autism associated with human adenylosuccinate lyase gene defects	\$0	Q2.S.D	University of Delaware
A longitudinal MRI study of brain development in fragile X syndrome	\$617,080	Q2.S.D	University of North Carolina at Chapel Hill
The role of intracellular metabotropic glutamate receptor 5 at the synapse	\$25,890	Q2.S.D	Washington University in St. Louis
Development of novel diagnostics for fragile X syndrome	\$532,677	Q2.S.D	JS Genetics, Inc.
Quantitative proteomic approach towards understanding and treating autism	\$75,000	Q2.S.D	Emory University
The mechanism and significance of Evf ncRNA regulation of the DLX genes	\$2,425	Q2.S.D	University of Washington
Modulation of fxr1 splicing as a treatment strategy for autism in fragile X syndrome	\$158,649	Q2.S.D	Stanford University
Role of intracellular mGluR5 in fragile X syndrome and autism	\$75,000	Q2.S.D	Washington University in St. Louis
L-type calcium channel regulation of neuronal differentiation	\$41,380	Q2.S.D	Stanford University
Angelman syndrome (AS)	\$208,335	Q2.S.D	University of Alabama at Birmingham
MeCP2 modulation of BDNF signaling: Shared mechanisms of Rett and autism	\$320,469	Q2.S.D	University of Alabama at Birmingham
Sex differences in early brain development; Brain development in Turner syndrome	\$153,382	Q2.S.D	University of North Carolina at Chapel Hill
New approaches to local translation: SpaceSTAMP of proteins synthesized in axons	\$161,094	Q2.S.D	Dana-Farber Cancer Institute
Regulation of synapse elimination by FMRP	\$52,154	Q2.S.D	University of Texas Southwestern Medical Center
Olfactory abnormalities in the modeling of Rett syndrome	\$355,163	Q2.S.D	Johns Hopkins University
Visual system connectivity in a high-risk model of autism	\$0	Q2.S.D	Children's Hospital Boston
Investigation of postnatal drug intervention's potential in rescuing the symptoms of fragile X syndrome in adult mice	\$0	Q2.S.D	Massachusetts Institute of Technology
Aberrant synaptic function caused by TSC mutation in autism	\$75,000	Q2.S.D	Columbia University
Aberrant synaptic form and function due to TSC-mTOR-related mutation in autism spectrum disorders	\$150,000	Q2.S.D	Columbia University
TrkB agonist(s), a potential therapy for autism spectrum disorders	\$269,500	Q2.S.D	University of California, Los Angeles
Presynaptic fragile X proteins	\$90,000	Q2.S.D	Brown University
In-vivo imaging of neuronal structure and function in a reversible mouse model for autism.	\$28,000	Q2.S.D	Baylor College of Medicine
Probing a monogenic form of autism from molecules to behavior	\$312,500	Q2.S.D	Stanford University

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Gene silencing in fragile X syndrome	\$323,483	Q2.S.D	National Institutes of Health
The role of the autism-associated gene tuberous sclerosis complex 2 (TSC2) in presynaptic development	\$56,000	Q2.S.D	University of California, San Diego
Neural circuit deficits in animal models of Rett syndrome	\$44,000	Q2.S.D	Cold Spring Harbor Laboratory
Functional circuit disorders of sensory cortex in ASD and RTT	\$261,599	Q2.S.D	University of Pennsylvania
Elucidating the roles of SHANK3 and FXR in the autism interactome	\$396,509	Q2.S.D	Baylor College of Medicine
Elucidation and rescue of amygdala abnormalities in the Fmr1 mutant mouse model of fragile X syndrome	\$150,000	Q2.S.D	George Washington University
Synaptic phenotype, development, and plasticity in the fragile X mouse	\$421,590	Q2.S.D	University of Illinois at Urbana Champaign
The functional link between DISC1 and neuroligins: Two genetic factors in the etiology of autism	\$0	Q2.S.D	Children's Memorial Hospital, Chicago
Allelic choice in Rett syndrome	\$394,425	Q2.S.D	Winifred Masterson Burke Medical Research Institute
Activity-dependent phosphorylation of MeCP2	\$173,979	Q2.S.D	Harvard Medical School
Establishing zebrafish as a model for RAI1 gene dosage	\$74,750	Q2.S.D	Virginia Commonwealth University
Probing disrupted cortico-thalamic interactions in autism spectrum disorders	\$531,624	Q2.S.D	Children's Hospital Boston
BDNF and the restoration of spine plasticity with autism spectrum disorders	\$564,519	Q2.S.D	University of California, Irvine
The microRNA pathway in translational regulation of neuronal development	\$376,031	Q2.S.D	University of Massachusetts Medical School
The microRNA pathway in translational regulation of neuronal development	\$37,604	Q2.S.D	J. David Gladstone Institutes
Cortical circuit changes and mechanisms in a mouse model of fragile X syndrome	\$290,266	Q2.S.D	University of Texas Southwestern Medical Center
Neuronal activity-dependent regulation of MeCP2 (supplement)	\$77,123	Q2.S.D	Harvard Medical School
Neuronal activity-dependent regulation of MeCP2	\$437,522	Q2.S.D	Harvard Medical School
Genotype-phenotype relationships in fragile X families	\$535,019	Q2.S.D	University of California, Davis
Fundamental mechanisms of GPR56 activation and regulation	\$134,269	Q2.S.D	Emory University
Cellular and molecular alterations in GABAergic inhibitor circuits by mutations in MeCP2	\$330,774	Q2.S.D	Cold Spring Harbor Laboratory
Cell-based genomic analysis in mouse models of Rett syndrome	\$513,667	Q2.S.D	Cold Spring Harbor Laboratory
Study of fragile X mental retardation protein in synaptic function and plasticity	\$392,087	Q2.S.D	University of Texas Southwestern Medical Center

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Coordinated control of synapse development by autism-linked genes	\$150,000	Q2.S.D	University of Texas Southwestern Medical Center
Developmental versus acute mechanisms mediating altered excitatory synaptic function in the fragile X syndrome mouse model	\$127,500	Q2.S.D	University of Texas Southwestern Medical Center
MicroRNAs in synaptic plasticity and behaviors relevant to autism	\$131,220	Q2.S.D	Massachusetts General Hospital
Translation regulation in hippocampal LTP and LTD	\$372,141	Q2.S.D	New York University
Regulation of 22q11 genes in embryonic and adult forebrain	\$313,000	Q2.S.D	The George Washington University
Regulation of 22q11 genes in embryonic and adult forebrain	\$9,806	Q2.S.D	University of North Carolina at Chapel Hill
The role of MeCP2 in Rett syndrome	\$337,753	Q2.S.D	University of California, Davis
Mouse models of human autism spectrum disorders: Gene targeting in specific brain regions	\$400,000	Q2.S.D	University of Texas Southwestern Medical Center
Augmentation of the cholinergic system in fragile X syndrome: A double-blind placebo study	\$240,000	Q2.S.D	Stanford University
Proteomics in drosophila to identify autism candidate substrates of UBE3A	\$316,355	Q2.S.D	University of Tennessee Health Science Center
Relation of sleep epileptiform discharges to insomnia and daytime behavior	\$0	Q2.S.E	Vanderbilt University
ACE Center: Structural and chemical brain imaging of autism	\$514,982	Q2.S.E	University of Washington
Selective disruption of hippocampal dentate granule cells in autism: Impact of PTEN deletion	\$371,250	Q2.S.E	Cincinnati Children's Hospital Medical Center
Gastrointestinal functions in autism	\$0	Q2.S.E	University at Buffalo, The State University of New York
Characterizing sleep disorders in autism spectrum disorder	\$37,355	Q2.S.E	Stanford University
The effects of disturbed sleep on sleep-dependent memory consolidation and daily function in individuals with ASD	\$112,327	Q2.S.E	Beth Israel Deaconess Medical Center
Sensory mechanisms and self-injury	\$383,231	Q2.S.E	University of Minnesota
Molecular components of A-type K+ channels	\$349,013	Q2.S.E	New York University School of Medicine
Treatment of medical conditions among individuals with autism spectrum disorders	\$578,006	Q2.S.E	National Institutes of Health
Neural dissection of hyperactivity/inattention in autism	\$1,117,595	Q2.S.E	New York University School of Medicine
Understanding the cognitive impact of early life epilepsy	\$845,000	Q2.S.E	Children's Hospital Boston
Th cell polarization and candida reactivity in autistic children with food allergy	\$25,000	Q2.S.E	University of Medicine & Dentistry of New Jersey
The MET signaling system, autism and gastrointestinal dysfunction	\$277,299	Q2.S.E	University of Southern California

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Etiology of sleep disorders in ASD: Role of inflammatory cytokines	\$0	Q2.S.E	University of Maryland, Baltimore
Vaccination with regression study	\$16,258	Q2.S.F	Kaiser Permanente Georgia
Neuroimmunologic investigations of autism spectrum disorders (ASD)	\$385,337	Q2.S.F	National Institutes of Health
Simons Variation in Individuals Project (VIP) Site	\$118,142	Q2.S.G	University of Washington
Neural and phenotypic correlates of autism risk genes	\$545,057	Q2.S.G	University of California, Los Angeles
Behavioral and genetic biomarker development for autism and related disorders	\$494,132	Q2.S.G	Rutgers, The State University of New Jersey - New Brunswick
Autistic traits: Life course & genetic structure	\$547,284	Q2.S.G	Washington University
ACE Center: Genetics of serotonin in autism: Neurochemical and clinical endophenotypes	\$382,540	Q2.S.G	University of Illinois at Chicago
Mechanisms for 5-HTT control of PPI and perseverative behavior using mouse models (supplement)	\$6,802	Q2.S.G	University of Chicago
Mechanisms for 5-HTT control of PPI and perseverative behavior using mouse models	\$387,353	Q2.S.G	University of Chicago
Simons Variation in Individual Project (Simons VIP) Core Leader Gift	\$24,731	Q2.S.G	Children's Hospital Boston
Simons Variation in Individuals Project (Simons VIP)	\$181,357	Q2.S.G	Emory University
Neural correlates of restricted, repetitive behaviors in autism spectrum disorders	\$491,909	Q2.S.G	Massachusetts General Hospital
An investigation of the overlap of autism and fragile X syndrome	\$74,000	Q2.S.G	University of North Carolina at Chapel Hill
Social cognition in 22q11.2 deletion syndrom (DS) adolescents with ASD vs. without ASD: Imaging and genetic correlates	\$28,000	Q2.S.G	State University of New York Upstate Medical University
Simons Variation in Individuals Project (Simons VIP) Core Leader Gift	\$38,941	Q2.S.G	University of California, San Francisco
Characterizing the genetic systems of autism through multi-disease analysis	\$630,255	Q2.S.G	Harvard Medical School
Functional imaging of flexibility in autism: Informed by SLC6A4	\$128,971	Q2.S.G	Children's Research Institute
Neural correlates of restricted, repetitive behaviors in autism spectrum disorders	\$171,842	Q2.S.G	Massachusetts General Hospital
Relating copy number variants to head and brain size in neuropsychiatric disorders	\$99,862	Q2.S.G	University of California, San Diego
Neurogenic growth factors in autism	\$112,494	Q2.S.G	Yale University
Social processing, language, and executive functioning in twin pairs: Electrophysiological and behavioral endophenotypes	\$150,000	Q2.S.G	University of Washington

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ACE Center: Genetic contributions to endophenotypes of autism	\$569,673	Q2.S.G	University of Washington
The brain genomics superstruct project	\$150,000	Q2.S.G	President & Fellows of Harvard College
Simons Variation in Individuals Project (Simons VIP) Principal Investigator Gift	\$54,823	Q2.S.G	Columbia University
The genetic basis of mid-hindbrain malformations	\$773,002	Q2.S.G	Seattle Children's Hospital
ACE Center: Genetics of language & social communication: Connecting genes to brain & cognition	\$325,302	Q2.S.G	University of California, Los Angeles
A neuroimaging study of twin pairs with autism	\$632,389	Q2.S.G	Stanford University
Autism: Neuropeptide hormones and potential pathway genes	\$184,353	Q2.S.G	University of Illinois at Chicago
Autism: Neuropeptide hormones and potential pathway genes (supplement)	\$54,000	Q2.S.G	University of Illinois at Chicago
Genetic dissection of restricted repetitive behavior (RRB)	\$179,219	Q2.S.G	University of Florida
fMRI evidence of genetic influence on rigidity in ASD	\$0	Q2.S.G	University of Michigan
Autism: The neural substrates of language in siblings	\$56,955	Q2.S.G	Boston University Medical Campus
A multigenerational longitudinal study of language development: Insight from autism	\$108,904	Q2.S.G	Northwestern University
A multigenerational longitudinal study of language development: Insight from autism	\$92,000	Q2.S.G	University of North Carolina at Chapel Hill
A family-genetic study of language in autism	\$321,304	Q2.S.G	Northwestern University
A family-genetic study of language in autism	\$208,064	Q2.S.G	University of North Carolina at Chapel Hill
The genetic link between autism and structural cerebellar malformations	\$0	Q2.S.G	University of Chicago
Neural correlates of serotonin transporter gene polymorphisms and social impairment in ASD	\$92,811	Q2.S.G	University of Michigan
Language processing in children with 22q11 deletion syndrome and autism	\$30,000	Q2.S.G	Emory University
Longitudinal neurogenetics of atypical social brain development in autism	\$292,163	Q2.S.G	Yale University
Neural circuitry of social cognition in the broad autism phenotype	\$411,039	Q2.S.G	University of North Carolina at Chapel Hill
Pragmatic skills of young males and females with fragile X syndrome	\$507,009	Q2.L.A	University of North Carolina at Chapel Hill
Pragmatic skills of young males and females with fragile X syndrome (supplement)	\$125,116	Q2.L.A	University of North Carolina at Chapel Hill
20-year outcome of autism	\$150,000	Q2.L.A	University of Utah
Interdisciplinary investigation of biological signatures of autism subtypes	\$1,398,688	Q2.L.A	University of California, Davis

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MRI study of brain development in school age children with autism	\$0	Q2.L.A	University of North Carolina at Chapel Hill
Investigation of the link between early brain enlargement and abnormal functional connectivity in autism spectrum disorders	\$103,062	Q2.L.A	University of Washington
Functional neuroimaging of psychopharmacologic intervention for autism	\$158,810	Q2.L.B	University of North Carolina at Chapel Hill
A study of autism	\$291,461	Q2.L.B	University of Pennsylvania
Characterization of the mirror neuron system in 3-9 month old infants using the BabySQUID imaging system	\$5,519	Q2.Other	University of New Mexico
Neural basis for the production and perception of prosody	\$80,190	Q2.Other	University of Southern California
Architecture of myelinated axons linking frontal cortical areas	\$0	Q2.Other	Boston University
Investigation of cortical folding complexity in children with autism, their autism-discordant siblings, and controls	\$100,000	Q2.Other	Stanford University
Understanding perception and action in autism	\$0	Q2.Other	Kennedy Krieger Institute
Social and affective components of communication	\$150,119	Q2.Other	Salk Institute For Biological Studies
Taste, smell, and feeding behavior in autism: A quantitative traits study	\$576,270	Q2.Other	University of Rochester
Neural basis of audiovisual integration during language comprehension in autism	\$0	Q2.Other	University of Rochester
Engrailed and the control of synaptic circuitry in drosophila	\$112,500	Q2.Other	University of Puerto Rico Medical Sciences Campus
Olivocerebellar circuitry in autism	\$756,917	Q2.Other	Boston University Medical Campus
Past, present, and future-oriented thinking about the self in children with autism spectrum disorder	\$0	Q2.Other	City University London
Gross morphological correlates to the minicolumnopathy of autism	\$259,000	Q2.Other	University of Louisville
Development of brain connectivity in autism	\$262,100	Q2.Other	New York School of Medicine
Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	\$0	Q2.Other	Research Foundation for Mental Hygiene, Inc.
Cortical mechanisms underlying visual motion processing impairments in autism	\$0	Q2.Other	Harvard Medical School/McLean Hospital
Autism-specific mutation in DACT1: Impact on brain development in a mouse model	\$231,750	Q2.Other	University of California, San Francisco
The neural correlates of transient and sustained executive control in children with autism spectrum disorder	\$57,246	Q2.Other	University of Missouri
Neuroligins and neuroligins as autism candidate genes: Study of their association in synaptic connectivity	\$60,000	Q2.Other	University of California, San Diego



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Cellular characterization of Caspr2	\$23,907	Q2.Other	University of California, San Diego
Analysis of brain microstructure in autism using novel diffusion MRI approaches	\$0	Q2.Other	Washington University School of Medicine
ACE Center: Diffusion tensor MRI + histopathology of brain microstructure + fiber pathways	\$25	Q2.Other	University of Pittsburgh
Psychobiological investigation of the socioemotional functioning in autism	\$348,750	Q2.Other	Vanderbilt University
Gene expression and laminar analyses of pathological cortical patches in autism	\$199,739	Q2.Other	University of California, San Diego
fMRI studies of neural dysfunction in autistic toddlers	\$582,409	Q2.Other	University of California, San Diego
Stereological analyses of neuron numbers in frontal cortex from age 3 years to adulthood in autism	\$127,422	Q2.Other	University of California, San Diego
A combined fMRI-TMS study on the role of the mirror neuron system in social cognition: Moving beyond correlational evidence	\$0	Q2.Other	University of California, Los Angeles
ACE Center: Mirror neuron and reward circuitry in autism	\$305,987	Q2.Other	University of California, Los Angeles
Neurobiological mechanisms of insistence on sameness in autism	\$28,000	Q2.Other	University of Illinois at Chicago
Review of the literature on selenocysteine metabolism and selenoproteins in autism	\$3,000	Q2.Other	Northeastern University School of Pharmacy
Self-injurious behavior: An animal model of an autism endophenotype	\$0	Q2.Other	University of Florida
Connectivity of anterior cingulate cortex networks in autism	\$128,739	Q2.Other	New York University School of Medicine
Molecular mechanisms regulating synaptic strength	\$296,257	Q2.Other	Washington University
Evaluation of sleep disturbance in children with ASD	\$27,456	Q2.Other	Center for Autism and Related Disorders (CARD)
Description and assessment of sensory abnormalities in ASD	\$18,968	Q2.Other	Center for Autism and Related Disorders (CARD)
The neural substrates of repetitive behaviors in autism	\$42,111	Q2.Other	Boston University Medical Campus
SGER: Learning and representation of cortical similarity of faces in individuals with autistic spectrum disorder	\$33,333	Q2.Other	Rutgers, The State University of New Jersey - Newark
MRI: Acquisition of a high-density electrophysiology laboratory for intercollegiate research and training in cognitive neuroscience	\$137,003	Q2.Other	Scripps College
HSD: Collaborative research: Evolutionary, developmental, and neurobiological sources of moral judgments	\$143,883	Q2.Other	Harvard University
Neural systems for the extraction of socially-relevant information from faces	\$70,514	Q2.Other	Dartmouth College
Canonical neural computation in autism spectrum disorders	\$66,906	Q2.Other	New York University

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Homeostatic regulation of presynaptic function by dendritic mTORC1	\$31,705	Q2.Other	University of Michigan
Integrative functions of the planum temporale	\$411,394	Q2.Other	University of California, Irvine
Neural basis of cross-modal influences on perception	\$156,424	Q2.Other	University of California, San Diego
Collaborative research: The path to verb learning	\$66,000	Q2.Other	Temple University
Analysis of Fgf17 roles and regulation in mammalian forebrain development	\$52,154	Q2.Other	University of California, San Francisco
Exploring the uncanny valley	\$90,500	Q2.Other	Carnegie Mellon University
Collaborative research: Learning complex auditory categories	\$57,417	Q2.Other	Carnegie Mellon University
Collaborative research: Modeling perception and memory: Studies in priming	\$90,146	Q2.Other	University of California, San Diego
Retrograde synaptic signaling by Neurexin and Neuroligin in C. elegans	\$125,000	Q2.Other	Massachusetts General Hospital
Developing novel automated apparatus for studying battery of social behaviors in mutant mouse models for autism	\$217,948	Q2.Other	Weizmann Institute of Science
The mechanism and significance of Evf ncRNA regulation of the DLX genes	\$438,060	Q2.Other	Children's Memorial Hospital, Chicago
II-EN: City University of New York - Computing research infrastructure	\$150,803	Q2.Other	College of Staten Island (City University of New York)
Role of GluK6 in cerebella circuitry development	\$52,106	Q2.Other	Yale University
Development of face processing expertise	\$360,996	Q2.Other	University of Toronto
HSD: Collaborative research: Evolutionary, developmental, and neurobiological sources of moral judgments	\$95,323	Q2.Other	Rutgers, The State University of New Jersey - New Brunswick
Multiple systems in theory of mind development	\$163,096	Q2.Other	Rutgers, The State University of New Jersey - New Brunswick
Synchronous activity in networks of electrically coupled cortical interneurons	\$24,981	Q2.Other	University of California, Davis
Neurocognitive mechanisms underlying children's theory of mind development	\$77,250	Q2.Other	University of California, San Diego
Collaborative research: Learning complex auditory categories	\$37,495	Q2.Other	University of Arizona
Cochlear efferent feedback and hearing-in-noise perception in autism	\$221,822	Q2.Other	University of Rochester
Is there a hierarchy of social inference? Intentionality, mind, and morality	\$67,911	Q2.Other	Brown University
Morphological decomposition in derived word recognition: Single trial correlational MEG studies of morphology down to the roots	\$204,301	Q2.Other	New York University

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A developmental social neuroscience approach to perception-action relations	\$144,259	Q2.Other	Temple University
A study of the computational space of facial expressions of emotion	\$285,938	Q2.Other	The Ohio State University
Cognitive control of emotion in autism	\$101,034	Q2.Other	University of Pittsburgh
Ube3a requirements for structural plasticity of synapses	\$40,000	Q2.Other	Univ of North Carolina
Doctoral dissertation research: Sign language in deaf and hearing autistic children	\$5,930	Q2.Other	University of Texas at Austin
CDI-TYPE II: From language to neural representations of meaning	\$525,000	Q2.Other	Carnegie Mellon University
Cerebellar modulation of frontal cortical function	\$331,107	Q2.Other	University of Memphis
Sensory processing and integration in autism	\$557,971	Q2.Other	Albert Einstein College of Medicine of Yeshiva University
HCC:Small:Computational studies of social nonverbal communication	\$165,307	Q2.Other	University of Southern California
Neuroimaging of social perception	\$245,265	Q2.Other	University of Virginia
Cell adhesion molecules in CNS development	\$541,105	Q2.Other	The Scripps Research Institute
Elucidating the function of class 4 semaphorins in GABAergic synapse formation	\$320,250	Q2.Other	Brandeis University
Glutamate receptor desensitization and its modulation	\$328,338	Q2.Other	Colorado State University
Longitudinal neurodevelopment of auditory and language cortex in autism	\$27,522	Q2.Other	University of Utah
Neural bases of semantic interpretation	\$100,013	Q2.Other	New York University
Met signaling in neural development and circuitry formation	\$81,998	Q2.Other	University of Southern California
Serotonin signal transduction in two groups of autistic patients	\$157,000	Q2.Other	University of Illinois at Chicago
CAREER: Integrative behavioural and neurophysiological studies of normal and autistic cognition using video game environments	\$140,000	Q2.Other	Cornell University
Collaborative research: Detecting false discoveries under dependence using mixtures	\$40,546	Q2.Other	University of Maryland, Baltimore County
Collaborative research: RUI: Perceptual pick-up processes in interpersonal coordination	\$47,288	Q2.Other	College of the Holy Cross
Glial control of neuronal receptive ending morphology	\$422,500	Q2.Other	The Rockefeller University
Collaborative research: Modeling perception and memory: Studies in priming	\$134,781	Q2.Other	Indiana University
fMRI study of reward responsiveness of children with autism spectrum disorder	\$49,846	Q2.Other	University of California, Los Angeles
Metacognition in comparative perspective	\$234,705	Q2.Other	University at Buffalo, The State University of New York

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Children's causal learning and developing knowledge of mechanisms	\$55,309	Q2.Other	Brown University
The neural basis of early action perception	\$95,040	Q2.Other	University of Washington
Role of neuronal migration genes in synaptogenesis and plasticity	\$47,606	Q2.Other	Weill Cornell Medical College
A systematic test of the relation of ASD heterogeneity to synaptic function	\$875,864	Q2.Other	Stanford University
Kinetics of drug macromolecule complex formation	\$729,415	Q2.Other	University of California, San Diego
Attentional distribution and word learning in children with autism	\$40,000	Q2.Other	Brown University
Imaging PTEN-induced changes in adult cortical structure and function in vivo	\$278,686	Q2.Other	University of California, Los Angeles
CAREER: Dissecting the neural mechanisms for face detection	\$170,000	Q2.Other	California Institute of Technology
Structural and functional connectivity of large-scale brain networks in autism spectrum disorders	\$165,629	Q2.Other	Stanford University
Novel computational methods for higher order diffusion MRI in autism	\$704,302	Q2.Other	University of Pennsylvania
Defining the dynamics of the default network with direct brain recordings and functional MRI	\$149,942	Q2.Other	University of Washington
Dimensions of mind perception	\$112,584	Q2.Other	Harvard University
Neural basis of behavioral flexibility	\$367,565	Q2.Other	Mount Sinai School of Medicine
Action anticipation in infants	\$99,789	Q2.Other	University of Chicago
Brain lipid rafts in cholesterol biosynthesis disorders	\$63,000	Q2.Other	Medical College of Wisconsin
Statistical analysis of biomedical imaging data in curved space	\$330,008	Q2.Other	University of North Carolina at Chapel Hill
Testing neurological models of autism	\$315,526	Q2.Other	California Institute of Technology
Towards an endophenotype for amygdala dysfunction	\$384,145	Q2.Other	California Institute of Technology
Cerebellar anatomic and functional connectivity in autism spectrum disorders	\$246,178	Q2.Other	University of Texas at Austin
Autism and the insula: Genomic and neural circuits	\$620,305	Q2.Other	California Institute of Technology
Time perception and timed performance in autism	\$89,846	Q2.Other	Kennedy Krieger Institute
Anatomy of primate amygdaloid complex	\$114,105	Q2.Other	University of California, Davis
CAREER: Model-based fMRI of human object recognition	\$123,719	Q2.Other	Georgetown University
Psychophysiological mechanisms of emotion expression	\$59,668	Q2.Other	Georgia State University
Neural synchrony dysfunction of gamma oscillations in autism	\$265,595	Q2.Other	University of Colorado Denver

Project Title	Funding	Strategic Plan Objective	Institution
Gamma band dysfunction as a local neuronal connectivity endophenotype in autism	\$78,797	Q2.Other	University of Colorado Denver
Regulation of activity-dependent ProSAP2 synaptic dynamics	\$41,380	Q2.Other	Stanford University
Creating a specimen bank of neurotypical individuals	\$12,000	Q2.Other	Health Research Institute
Perturbed activity-dependent plasticity mechanisms in autism	\$311,292	Q2.Other	Harvard Medical School
Multidimensional impact of pain on individuals and family functioning in ASD	\$15,000	Q2.Other	The Research Foundation of the State University of New York
Neural mechanisms for social cognition in autism spectrum disorders	\$223,233	Q2.Other	Massachusetts Institute of Technology
CAREER: Typical and atypical development of brain regions for theory of mind	\$89,214	Q2.Other	Massachusetts Institute of Technology
Physiological and behavioral characterization of sensory dysfunction in autism	\$76,478	Q2.Other	Thomas Jefferson University
Behavioral and sensory evaluation of auditory discrimination in autism	\$151,692	Q2.Other	University of Massachusetts Medical School
Are neuronal defects in the cerebral cortex linked to autism?	\$28,334	Q2.Other	Memorial Sloan-Kettering Cancer Center
Visual perspective-taking and the acquisition of American Sign Language by deaf children with autism	\$0	Q2.Other	University of Texas at Austin
Autism spectrum disorders and the visual analysis of human motion	\$250,000	Q2.Other	Rutgers, The State University of New Jersey
Autistic endophenotypes and their associations to oxytocin and cholesterol	\$84,750	Q2.Other	Mount Sinai School of Medicine
Studies on protein synthesis and long-term adaptive responses in the CNS	\$1,992,862	Q2.Other	National Institutes of Health
Cognitive control in autism	\$149,754	Q2.Other	University of California, Davis
ACE Center: Neuroimaging studies of connectivity in ASD	\$330,130	Q2.Other	Yale University
Structural brain differences between autistic and typically-developing siblings	\$12,333	Q2.Other	Stanford University
Phonological processing in the autism spectrum	\$0	Q2.Other	Heriot-Watt University
ACE Center: Development of categorization, facial knowledge in low & high functioning autism	\$393,174	Q2.Other	University of Pittsburgh
Function and dysfunction of neuroligins in synaptic circuits	\$150,000	Q2.Other	Stanford University
Function of neurexins	\$464,471	Q2.Other	Stanford University
RNA-Seq studies of gene expression in cells and networks in FI and ACC in autism	\$551,118	Q2.Other	California Institute of Technology
Learning and compression in human working memory	\$84,000	Q2.Other	Harvard University

Project Title	Funding	Strategic Plan Objective	Institution
ACE Center: Cognitive affective and neurochemical processes underlying is in autism	\$382,540	Q2.Other	University of Illinois at Chicago
Using functional physiology to uncover the fundamental principles of visual cortex	\$310,700	Q2.Other	Carnegie Mellon University
Cognitive mechanisms of serially organized behavior (supplement)	\$25,029	Q2.Other	Columbia University
Cognitive mechanisms of serially organized behavior	\$349,715	Q2.Other	Columbia University
Imaging synaptic neurexin-neuroligin complexes by proximity biotinylation: Applications to the molecular pathogenesis of autism	\$0	Q2.Other	Massachusetts Institute of Technology
Imaging brain and movement in ASD	\$270,358	Q2.Other	University of California, San Diego
Regulation of synaptogenesis by cyclin-dependent kinase 5	\$342,454	Q2.Other	Massachusetts Institute of Technology
Role of micro-RNAs in ASD affected circuit formation and function	\$127,085	Q2.Other	University of California, San Francisco
Functional anatomy of face processing in the primate brain	\$1,877,600	Q2.Other	National Institutes of Health
Morphogenesis and function of the cerebral cortex	\$409,165	Q2.Other	Yale University
Neuroimaging of top-down control and bottom-up processes in childhood ASD	\$390,562	Q2.Other	Georgetown University
Using genetically modified mice to explore the neuronal network involved in social recognition	\$60,000	Q2.Other	Haifa University
Genetic studies of autism-related Drosophila neurexin and neuroligin	\$137,500	Q2.Other	The University of North Carolina at Chapel Hill
Optical analysis of circuit-level sensory processing in the cerebellum	\$48,612	Q2.Other	Princeton University
Physiology of attention and regulation in children with ASD and LD	\$374,693	Q2.Other	Seattle Children's Hospital
Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	\$0	Q2.Other	Research Foundation for Mental Hygiene, Inc.
White matter structural deficits in high functioning children with autism	\$848	Q2.Other	Feinstein Institute For Medical Research
Role of autism-susceptibility gene, CNTNAP2, in neural circuitry for vocal communication	\$0	Q2.Other	University of California, Los Angeles
MEG investigation of phonological processing in autism	\$28,000	Q2.Other	University of Colorado Denver
Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	\$0	Q2.Other	Research Foundation for Mental Hygiene, Inc.
Imaging signal transduction in single dendritic spines	\$386,100	Q2.Other	Duke University
Young development of a novel PET ligand for detecting oxytocin receptors in brain	\$264,000	Q2.Other	Emory University

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High-throughput DNA sequencing method for probing the connectivity of neural circuits at single-neuron resolution	\$435,000	Q2.Other	Cold Spring Harbor Laboratory
Informational and neural bases of empathic accuracy in autism spectrum disorder	\$28,000	Q2.Other	Columbia University
CAREER: Enabling community-scale modeling of human behavior and its application to healthcare	\$253,767	Q2.Other	Dartmouth College
BDNF secretion and neural precursor migration	\$0	Q2.Other	Dana-Farber Cancer Institute
Functional analysis of neurexin IV in Drosophila	\$148,746	Q2.Other	University of California, Los Angeles
Complex decisions and the brain: An experimental and theoretical approach	\$248,999	Q2.Other	Cold Spring Harbor Laboratory
A neural model of fronto-parietal mirror neuron system dynamics	\$225,557	Q2.Other	University of Maryland
HSD: Collaborative research: Evolutionary, developmental, and neurobiological sources of moral judgments	\$90,074	Q2.Other	University of Southern California
Study of health outcomes in children with autism and their families	\$4,197,414	Q2.Other	The Lewin Group
CAREER: The role of prosody in word segmentation and lexical access	\$92,995	Q2.Other	Michigan State University
Neural mechanisms of tactile sensation in rodent somatosensory cortex	\$284,334	Q2.Other	University of California, Berkeley
Collaborative research: Detecting false discoveries under dependence using mixtures	\$20,000	Q2.Other	North Carolina State University
Collaborative research: The path to verb learning	\$33,000	Q2.Other	University of Delaware
Communicative and emotional facial expression production in children with autism	\$212,250	Q2.Other	University of Massachusetts Medical School
Identification of candidate genes at the synapse in autism spectrum disorders	\$167,751	Q2.Other	Yale University
The neural substrates of social interactions	\$27,327	Q2.Other	University of Iowa
Role of neuroligins in long-term plasticity at excitatory and inhibitory synapses	\$59,918	Q2.Other	Albert Einstein College of Medicine of Yeshiva University
Multisensory processing in autism	\$0	Q2.Other	University of North Carolina at Chapel Hill
GABAergic dysfunction in autism	\$290,090	Q2.Other	University of Minnesota
Mimicry and imitation in autism spectrum disorders	\$0	Q2.Other	University of Connecticut
The integration of interneurons into cortical microcircuits	\$150,000	Q2.Other	New York University School of Medicine
The role of FOX-1 in neurodevelopment and autistic spectrum disorder	\$142,677	Q2.Other	University of California, Los Angeles
Neural mechanisms underlying an extended multisensory temporal binding window in ASD	\$28,000	Q2.Other	Vanderbilt University

Project Title	Funding	Strategic Plan Objective	Institution
Neurexin regulation of central GABAergic synapses	\$78,000	Q2.Other	Duke University
Synaptic analysis of neuroligin1 function	\$52,154	Q2.Other	Stanford University
Dendritic organization within the cerebral cortex in autism	\$110,966	Q2.Other	The Open University
The role of CNTNAP2 in embryonic neural stem cell regulation	\$150,000	Q2.Other	Johns Hopkins University School of Medicine
CAREER: The neuro-cognitive evolution of speech-reading	\$100,000	Q2.Other	Princeton University
The effects of Npas4 and Sema4D on inhibitory synapse formation	\$0	Q2.Other	Children's Hospital Boston
Neural basis of socially driven attention in children with autism	\$0	Q2.Other	University of California, Los Angeles
Face perception: Mapping psychological spaces to neural responses	\$119,998	Q2.Other	Stanford University
Neural correlates of maturation of face processing	\$156,354	Q2.Other	Stanford University
Development of the functional neural systems for face expertise (supplement)	\$172,529	Q2.Other	University of California, San Diego
Development of the functional neural systems for face expertise	\$496,073	Q2.Other	University of California, San Diego
Defining cells and circuits affected in autism spectrum disorders	\$820,059	Q2.Other	The Rockefeller University
Cell type-based genomics of developmental plasticity in cortical GABA interneurons	\$210,000	Q2.Other	Cold Spring Harbor Laboratory
A systems biology approach to unravel the underlying functional modules of ASD	\$655,975	Q2.Other	University of California, San Diego
GABA(A) receptor modulation via the beta subunit	\$226,499	Q2.Other	Emory University
Functional neuroanatomy of developmental changes in face processing (supplement)	\$7,722	Q2.Other	University of Kentucky
Functional neuroanatomy of developmental changes in face processing	\$236,799	Q2.Other	Medical University of South Carolina
Functional neuroanatomy of developmental changes in face processing	\$70,669	Q2.Other	University of Kentucky
A comparative developmental connectivity study of face processing	\$296,461	Q2.Other	University of Kentucky
Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	\$474,750	Q2.Other	Memorial Sloan-Kettering Cancer Center
Visuospatial processing in adults and children with autism	\$0	Q2.Other	Carnegie Mellon University
ACE Center: Systems connectivity + brain activation: Imaging studies of language + perception	\$439,282	Q2.Other	University of Pittsburgh



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Neurexin-neuroligin trans-synaptic interaction in learning and memory	\$100,000	Q2.Other	Columbia University
Neurexin-neuroligin trans-synaptic interaction in learning and memory	\$100,000	Q2.Other	Columbia University
MEG investigation of the neural substrates underlying visual perception in autism	\$126,317	Q2.Other	Massachusetts General Hospital
Excessive cap-dependent translation as a molecular mechanism underlying ASD	\$549,386	Q2.Other	New York University
Multimodal brain imaging in autism spectrum disorders	\$167,832	Q2.Other	University of Washington
Language and social communication in autism	\$3,039	Q2.Other	University of California, Los Angeles
Testing the effects of cortical disconnection in non-human primates	\$75,000	Q2.Other	The Salk Institute for Biological Studies
Slick and Slack heteromers in neuronal excitability	\$9,298	Q2.Other	Yale University
The microstructural basis of abnormal connectivity in autism	\$336,355	Q2.Other	University of Utah
Atypical late neurodevelopment in autism: A longitudinal MRI and DTI study	\$491,943	Q2.Other	University of Utah
Neurodevelopmental mechanisms of social behavior	\$515,840	Q2.Other	University of Southern California
Function and structure adaptations in forebrain development	\$580,377	Q2.Other	University of Southern California
Neurobiological correlates of language dysfunction in autism spectrum disorders	\$555,288	Q2.Other	The Mind Research Network
The cognitive neuroscience of autism spectrum disorders	\$1,121,429	Q2.Other	National Institutes of Health
Chemosensory processing in chemical communication	\$284,599	Q2.Other	Florida State University
Multimodal analyses of face processing in autism & down syndrome	\$156,083	Q2.Other	University of Massachusetts Medical School
Linguistic perspective-taking in adults with high-functioning autism: Investigation of the mirror neuron system	\$25,570	Q2.Other	Carnegie Mellon University
Neural correlates of social exchange and valuation in autism	\$127,487	Q2.Other	Baylor College of Medicine
Social behavior deficits in autism: Role of amygdala	\$79,438	Q2.Other	State University of New York Upstate Medical Center
Motor control and cerebellar maturation in autism	\$154,143	Q2.Other	University of Illinois at Chicago
fMRI studies of cerebellar functioning in autism	\$49,000	Q2.Other	University of Illinois at Chicago
Motor skill learning in autism	\$454,262	Q2.Other	Kennedy Krieger Institute
Novel approaches for investigating the neurology of autism: Detailed morphometric analysis and correlation with motor impairment	\$127,500	Q2.Other	Kennedy Krieger Institute

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Behavioral and functional neuroimaging investigations of visual perception and cognition in autistics	\$127,168	Q2.Other	University of Montreal
Linking local activity and functional connectivity in autism	\$369,635	Q2.Other	San Diego State University
Electrical measures of functional cortical connectivity in autism	\$0	Q2.Other	University of Washington
The development of face processing	\$512,804	Q2.Other	Children's Hospital Boston
Experience and cognitive development in infancy	\$101,841	Q2.Other	University of California, Davis
The development of object representation in infancy	\$258,335	Q2.Other	University of California, Davis
Infants' developing representation of object function	\$63,259	Q2.Other	University of California, Davis
Development of ventral stream organization	\$136,047	Q2.Other	University of Pittsburgh
Roles of Wnt signaling/scaffolding molecules in autism	\$28,000	Q2.Other	University of California, San Francisco
Behavioral and neural processing of faces and expressions in nonhuman primates (supplement)	\$52,064	Q2.Other	Emory University
Behavioral and neural processing of faces and expressions in nonhuman primates	\$396,000	Q2.Other	Emory University
Studies of social communication in speakers with autism spectrum disorder	\$292,249	Q2.Other	Yale University
ACE Center: Disturbances of affective contact: Development of brain mechanisms for emotion	\$157,387	Q2.Other	University of Pittsburgh
Synaptic processing in the basal ganglia	\$382,323	Q2.Other	University of Washington
Brain circuitry in simplex autism	\$187,500	Q2.Other	Washington University in St. Louis
Identifying brain-based biomarkers for ASD & their biological subtypes	\$1,224,886	Q2.Other	New York State Psychiatric Institute
ACE Center: Imaging the autistic brain before it knows it has autism	\$206,070	Q2.Other	University of California, San Diego
Neural basis of empathy and its dysfunction in autism spectrum disorders (ASD)	\$572,893	Q2.Other	Duke University
The neural basis of social cognition	\$305,233	Q2.Other	Indiana University
Role of Pam in synaptic morphology and function	\$127,497	Q2.Other	Massachusetts General Hospital
Role of neuroligin in synapse stability	\$127,500	Q2.Other	Oklahoma Medical Research Foundation
Neural substrate of language and social cognition: Autism and typical development	\$50,474	Q2.Other	Massachusetts Institute of Technology

